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FUSILADE™ 2E Herbicide

Witchgrass added to pages 7, 14, and page 5 of the noncrop supplemental label.

JAN 2 3 1985



CENTER PANEL

FUSILADE™ 2E HERBICIDE

POSTEMERGENCE HERBICIDE FOR CONTROL OF PERENNIAL AND ANNUAL GRASS WEEDS

ACTIVE INGREDIENT:

butyl (RS)-2-[4-[[5-(trif1uoromethy propoanoate*	1)-2-pyridinyl]oxy]phenoxy]
INERT INGREDIENTS	74.87
* fluazifop-butyl	TOTAL100.07

FUSILADE 2E contains 2 pounds of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN

DANGER

See Side Panel for Additional Precautionary Statements and Statement of Practical Treatment.

ICI Americas Inc. Agricultural Chemicals Division Wilmington, Delaware 19897 U.S. Patent No. EPA Est. No. EPA Reg. No. 10182-66 Net Contents: Batch No.:

LEFT PANEL

PRECAUTIONARY STATEMENTS HAZARDS TO HUMAN AND DOMESTIC ANIMALS DANGER

Causes eye damage and skin irritation. Harmful if swallowed, inhaled or absorbed through skin. Do not get in eyes, on skin or on clothing. Wear protective clothing and PVC gloves when spraying. Wear protective clothing, PVC gloves and apron and full face shield when handling or mixing concentrate. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT:

IF SWALLOWED: Do not induce vomiting. Call a physician immediately.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

IF ON SKIN: Immediately remove contaminated clothing and wash thoroughly with plenty of soap and water. Get medical attention if irritation persists.

NOTE TO PHYSICIAN: Inducing vomiting as first aid for this substance may result in increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent. Vomiting should be induced only under professional supervision.

For 24-hour emergency assistance call 302/575-3000.

ENVIRONMENTAL HAZARDS: This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of waste. Do not apply when weather conditions favor drift from target area.

In case of a significant spill, call CHEMTREC 800/424-9300.

PHYSICAL AND CHEMICAL HAZARDS: Do not use or store near heat or open flame.

AND DISPOSAL:

disposal. Open dumping is prohibited. Do not reuse empty container.

Storage: Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Disposal:

Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Glass Containers: Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other approved state and local procedures.

NOTICE TO BUYER AND USER: Seller warrants that this product conforms to the chemical description of the label and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Seller and Buyer and User assumes the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

REFER TO SUPPLEMENTAL LABEL FOR DIRECTIONS FOR USE.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION.

FUSILADE 2E DIRECTIONS FOR USE

It is a violation of Federal Law to use this promine a manner inconsistent with its labeling. This labeling must be in the possession of the user at the time of application.

General Information

FUSILADE 2E is a selective postemergence herbicide for control of annual and perennial grass weeds in cotton and soybeans. FUSILADE 2E will provide effective control of grass weeds in conventional tillage, minimum tillage, and no-till plantings. FUSILADE 2E does not control broadleaf weeds or sedges (nutgrass).

Control Symptoms

FUSILADE 2E is a systemic herbicide which moves from the treated foliage into the rhizomes, stolons and growing points (meristematic regions) of treated grass weeds. Excellent control of a wide range of annual and perennial grass weeds will be obtained with FUSILADE 2E when applied as recommended on this label.

Growth of treated grass weeds stops soon after application. Symptoms include loss of vigor, yellowing and/or reddening, and necrosis. Symptoms are generally observed within one to three weeks, depending on the grass weed species and environmental conditions.

COTTON

APPLICATION DIRECTIONS 🦪

For all states except the irrigated areas of Arizona, California, New Mexico, West Oklahoma and West Texas, consult the use directions for Region A - Areas with adequate rainfall for crop production. For areas of low rainfall and low relative humidity, consult the use directions for Region B - Irrigated areas of Arizona, California, New Mexico, West Oklahoma and West Texas.

Timing

Apply to actively growing grass weeds before they exceed the recommended growth stages shown on this label.

Spray Additives (Cleared for use on growing crops)

ALWAYS ADD ONE OF THE FOLLOWING:

Crop Oil Concentrate

Add crop oil concentrate at 1% (1 quart per 25 gallons) of the finished spray volume. Use only nonphytotoxic crop oil concentrates that contain 15-20% surfactant.

OR

Nonionic Surfactant

Add nonionic surfactant at 0.25% (1/2 pint per 25 gallons) of the finished spray volume. Use only nonionic surfactants that contain at least 75% surface active agent. Symptoms often develop faster when crop oil concentrate is used than when nonionic surfactant is used, but there will be little, if any, difference in final control.

Ground Application

Use sufficient spray volume and pressure to ensure complete coverage. With ground equipment, use a minimum of 5 gallons per acre and 30-60 psi pressure. Use 60 psi if grass foliage is dense.

DO NOT USE FLOOD TYPE OR OTHER SPRAY NOZZLE TIPS WHICH DELIVER COARSE SPRAYS

Aerial Application

Use a minimum of 5 gallons per acre for aerial application.

Cultivation

Cultivation of perennial grasses from 7 days prior until 3 days after application of FUSILADE 2E may reduce control due to 1) destruction of grass foliage which otherwise would adsorb and translocate FUSILADE 2E into rhizomes and stolons; 2) inducing a stress on grass remaining in the uncultivated part of the field, thereby reducing uptake and translocation of FUSILADE 2E. However, cultivation no sooner than 3 days after application will often assist in grass control.

Cultivation of annual grasses from 7 days prior until 7 days after application of FUSILADE 2E may reduce control due to 1) inducing a stress on grass remaining in the uncultivated part of the field, thereby reducing uptake and translocation of FUSILADE 2E; 2) physical covering of small seedlings with soil, which prevents foliage contact by the spray. However, cultivation not sooner than 7 days following application will often assist in grass control.

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Band Applications

When making band applications, equipment should be adjusted to provide maximum coverage of grasses in the row (drill). Thorough coverage can be obtained with a nozzle directed to each side of the row toward the grass in the row. Application with a single nozzle over the top of the row is not recommended. The use of band applications on perennial grasses may result in reinfestation of the treated band from the untreated middle.

PERENNIAL GRASS CONTROL

For best results, rhizomes or stolons must be cut up by preplant tillage (discing, plowing, etc.) to stimulate maximum emergence of grass shoots. Because rhizomes and stolons are not cut up by preplant tillage in no-till and reduced tillage plantings, a second application is recommended for season-long control. Apply FUSILADE 2E to actively growing areas.

Two applications of FUSILADE 2E are generally more effective for full season control than a single application of the same total amount.

REGION A - AREAS WITH ADEQUATE RAINFALL FOR CROP PRODUCTION. (For all states except the irrigated areas of Arizona, California, New Mexico, West Oklahoma and West Texas.

Apply FUSILADE 2E to actively growing grasses.

Always add either crop oil concentrate or nonionic surfactant at the recommended rates

USE LOWER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage can be achieved.
- A majority of the grass is less than the maximum recommended height.
- Rhizomes or stolons were cut up by preplant tillage.
- Environmental conditions are optimal: abundant soil moisture, warm temperatures and high humidity.

USE HIGHER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage cannot be achieved.
- A majority of the grass is at the maximum recommended height.
- Rhizomes and stolons were not cut up by preplant tillage.
- One or more environmental conditions is less than optimal: limited soil moisture, cool temperatures or low humidity.

Rhizome Johnsongrass (Sorghum halepense)

Apply \$ to 1\$ pint of FUSILADE 2E per acre to johnsongrass when it is 12-18 inches tall and before the boot stage. If regrowth occurs, apply \$ to 1 pint per acre when regrowth is 6-12 inches tall. Do not apply a total of more than 4 pints of FUSILADE 2E per acre per season.

Bermudagrass (Cynodon dactylon)

Apply 3/4 to 2 pints of FUSILADE 2E per acre to bermudagrass up to three inches in height or 4-8 inches in stolon (runner) length. Bermudagrass may regrow. For season-long control, make a second application of 3/4 to 1½ pints of FUSILADE 2E per acre 2 to 6 weeks after the first application.

Because bermudagrass is a low growing perennial, the crop canopy may shield it from herbicide sprays. Coverage may be improved by directing the spray under the crop canopy. Do not apply a total of more than 4 pints per acre per season.

Spot Treatments

Mix FUSILADE 2E and crop oil concentrate or nonionic surfactant with water according to the amounts shown below. Spray to obtain thorough coverage, but do not spray to runoff. Retreat if necessary. Applications must be made prior to boll set in cotton. Do not apply a total or more than 4 pints of FUSILADE 2E per acre per season.

		Add These Amounts	
To Make This	FUSILADE 2E	Crop 011	Nonionic
Spray Volume		Concentrate or	Surfactant
l gallon	1.0 fl. oz.	<pre>1-1/4 fl. oz. 1 quart 2 quarts 1 gallon</pre>	1/3 fl. oz.
25 gallons	1½ pints		1/2 pint
50 gallons	3.0 pints		1 pint
100 gallons	3.0 quarts		1 quart

REGION B - IRRIGATED AREAS OF Arizona, California, New Mexico, West Oklahoma and West Texas.

Apply FUSILADE 2E to actively growing grasses.

For best results, apply FUSILADE 2E within seven days after irrigation

Always add either crop oil concentrate or nonionic surfactant

USE LOWER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage can be achieved.
- A majority of the grass is less than the maximum recommended height.
- Rhizomes or stolons were cut up by preplant tillage.
- Environmental conditions are optimal: abundant soil moisture, warm temperatures and high humidity.

USE HIGHER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage cannot be achieved.
- A majority of the grass is at the maximum recommended height.
- Rhizomes and stolons were not cut up by preplant tillage.
- One or more environmental conditions is less than optimal: limited soil moisture, cool temperatures or low humidity.

Rhizome Johnsongrass (Sorghum halepense)

Apply 1 to 2 pints of FUSILADE 2E per acre to johnsongrass when it is 12-18 inches tall and before the boot stage. For season-long control, make a second application of 1 to 2 pints per acre 2-6 weeks after the first application. Do not apply a total of more than 4 pints of FUSILADE 2E per acre.

Bermudagrass (Cynodon dactylon)

Apply 1 to 2 pints of ZUSILADE 2E per acre to bermudagrass when it is 3 inches in height or 4-8 inches in stolon (runner) length. For season-long control, make a second application of 1 to 2 pints per acre 2-6 weeks after the first application.

Because bermudagrass is a low-growing perennial, the crop canopy may shield it from herbicide sprays. Coverage may be improved by directing the spray under the crop canopy. Do not apply a total of more than 4 pints of FUSILADE 2E per acre per season.

Spot Treatments

Mix FUSILADE 2E and crop oil concentrate or nonionic surfactant with water according to the amounts shown below. Spray to obtain therough coverage, but do not spray to runoff. Retreat if necessary. Application should be made prior to boll set in cotton. Do not apply a total of more than 4 pints of FUSILADE 2E per acre per season.

		Add These Amounts	_
To Make This	FUSILADE 2E	Crop 011	Nonionic
Spray Volume		Concentrate or	Surfactant
l gallon	1 fl. oz.	<pre>1 1/4 fl. oz. 1 quert 2 quarts 1 gallon</pre>	1/3 fl. oz.
25 gallons	1½ pints		1/2 pint
50 gallons	3.0 pints		1 pint
100 gallons	3.0 quarts		1 quart

ANNUAL GRASS CONTROL

For grasses not exceeding the growth stages shown in Table 1, and before tillering, apply FUSILADE 2E at the rates recommended in Table 1. Do not apply a total of more than 4 pints of FUSILADE 2E per acre per season.

RESIDUAL ANNUAL GRASS CONTROL

Under conditions where rainfall is adequate following FUSILADE 2E application, soil residual activity may be observed. This may result in control or suppression of new flushes of annual grasses. The amount of residual control is dependent on the FUSILADE 2E rate used, grass density and soil type, with more activity being seen with higher rates on coarse-textured soils low in organic matter.

TABLE 1

ANNUAL GRASS CONTROL

Apply FUSILADE 2E to actively growing grasses.

Apply to grasses no larger than the size indicated in this table. Always add the recommended rate of nonphytotoxic oil concentrate or nonionic surfactant.

Do not use flood type or other nozzle tips which deliver coarse sprays.

REGION A - AREAS WITH ADEQUATE RAINFALL (FOR ALL STATES EXCEPT THE IRRIGATED AREAS OF ARIZONA, CALIFORNIA, NEW MEXICO, WEST OKLAHOMA AND WEST TEXAS.

USE LOWER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage can be achieved.
- A majority of the grass is less than the maximum recommended height.
- Environmental conditions are optimal: abundant soil moisture, warm temperatures and high humidity.

USE HIGHER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage cannot be achieved.
- A majority of the grass is at the maximum recommended height.
- One or more environmental conditions is less than optimal: limited soil moisture, cool temperatures or low humidity.

Grass Species	Height (Inches)	FUSILADE Rate (Pints/A)
Group 1		
Shattercane/Wildcane/Volunterr milo (Sorghum bicolor) Volunteer corn (Zea mays) Seedling johnsongrass (Sorghum halepense)		1/4 to 3/4 1/4 to 3/4 1/4 to 3/4
Group 2 Broadleaf signalgrass (Brachiaria platyphylla)	2-4	1/2 to 1-1/2
Fall panicum (Panicum dichotomiflorum) Goosegrass (Eleusine indica)	2-4 2-4 2-4 2-4 2-4 2-4 2-4	1/2 to 1-1/2 1/2 to 1-1/2
Group 3 Bernyarderes (Echinochios crus-celli)	2_4	3// +0 1-1/2
Barnyardgrass (Echinochloa crus-galli) Junglerice (Echinochloa colonum) Itengrass (Rottboellia exaltata) Large crabgrass (Digitaria sanguinalis) Smooth crabgrass (Digitaria ischaemum) Southern sandbur (Cenchrus echinatus) Yellow foxtail (Setaria lutescens) Green foxtail (Setaria viridis) Giant foxtail (Setaria faberi) Red rice (Oryza sativa) Volunteer barley (Hordeum vulgare) Tighthead Sprangle Top (Leptochloa panicoides)	2-4 2-4	3/4 to 1-1/2 3/4 to 1-1/2
Loosehead Sprangle Top (Leptochloa fascicularis)	2 - 4 2 - 4	3/4 to 1-1/2 3/4 to 1-1/2

a/ b/ Length of runners or numbers of leaves Two or three leaves

Retreat at the recommended rate if needed to control lategerminating grasses or regrowth. When mixed grass populations include grasses from Group 2 or 3, use the higher rate range of FUSILADE 2E for broad-spectrum control.

REGION B - IRRIGATED AREAS OF ARIZONA, CALIFORNIA, NEW MEXICO, WEST OKLAHOMA AND WEST TEXAS.

USE LOWER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage can be achieved.
- A majority of the grass is less than the maximum recommended height.
- Environmental conditions are optimal: abundant soil moisture, warm temperatures and high humidity.

USE HIGHER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage cannot be achieved.
- A majority of the grass is at the maximum recommended height.
- One or more environmental conditions is less than optimal: limited soil moisture, cool temperatures or low humidity.

Grass Species	Height (Inches)	FUSILADE Rate (Pints/A)
Seedling johnsongrass (Sorghum halepense)	4-12	1 to 2
Shattercane/Wildcane/Volunteer milo		
(Sorghum bicolor)	6-12	1 to 2
Volunteer corn (Zea mays)	12-24	1 to 2
Volunteer oats (Avena sativa)	2-4	1 to 2
Volunteer wheat (Triticum aestivum)	2-4	1 to 2
Barnyardgrass (Echinochioa crus-galli	2-4	1 to 2
Field sandbur (Cenchrus pauciflorus)	2-4	1 to 2
Southern sandbur (Cenchrus echinatus)	2-4	1 to 2
Junglerice (Echinochlos colonum)	2-4	1 to 2
Large crabgrass (Digitaria sanguinalis)	2-4	1 to 2
Prairie cupgrass (Eriochloa contracta)	2-4	1 to 2
Southwestern cupgrass (Eriochloa gracilis)	2-4	1 to 2
Volunteer barley (hordeum vulgare)	2-4	1 to 2
Red sprangle top (Lep ochloa filiformis)	2-4	1 to 2
Mexican sprangle top (Leptochloa uninervia) 2-4	1 to 2

Retreat at the recommended rate if needed to control lategerminating grasses or regrowth.

Remarks and Precautions

Do not apply a total of more than 4 pints of FUSILADE 2E per acre per season to cotton.

Clean sprayer thoroughly before and after the application of FUSILADE 2E. Failure to clean sprayer thoroughly after application may result in injury to any grass crop subsequently sprayed, including corn, sorghum, small grains, sugarcane, rice and turf.

Avoid drift to all other crops and nontarget areas. Grass crops are highly susceptible to FUSILADE 2E.

Do not plant rotational grass crops such as corn, sorghum and cereals within 60 days after last application.

Do not harvest cotton within 90 days of application.

Do not apply after boll set.

Do not graze or harvest for forage or hay.

Do not tank mix FUSILADE 2E with herbicides or other pesticides, with liquid fertilizers or with any other additive except as specified on this label. Sequential application of other herbicides within five days before or after FUSILADE 2E application has sometimes results in crop injury and reduced grass control.

Do not apply FUSILADE 2E with recirculating sprays, ropewick applicators or any similar devices.

Do not apply FUSILADE 2E if rainfall is expected within 1 hour.

SOYBEANS

APPLICATION DIRECTIONS

Apply to actively growing grasses before they exceed the recommended growth stages shown on this label.

Spray Volume and Pressure

Use sufficient spray volume and pressure to ensure complete coverage. With ground equipment, use a minimum of 10 gallons per acre and 30-60 psi pressure. Use 60 psi if grass foliage is dense.

DO NOT USE FLOOD TYPE OR OTHER SPRAY NOZZLE TIPS WHICH DELIVER COARSE SPRAYS

Spray Additives (Cleared for use on growing crops)

ALWAYS ADD ONE OF THE FOLLOWING:

Crop Oil Concentrate

Add crop oil concentrate at 1% (1 quart per 25 gallons) of the finished spray volume. Use only nonphytotoxic crop oil concentrates that contain 15-20% surfactant.

OR

Nonionic Surfactant

Add nonionic surfactant at 0.25% (1/2 pint per 25 gallons) of the finished spray volume. Use only nonionic surfactants that contain at least 75% surface active agent. Symptoms often develop faster when crop oil concentrate is used than when nonionic surfactant is used, but there will be little, if any, difference in final control.

Ground Application

Use sufficient spray volume and pressure to ensure complete coverage. With group equipment, use a minimum of 5 gallons per acre and 30-60 psi pressure. Use 60 psi if grass foliage is dense.

DO NOT USE FLOOD TYPE OR OTHER SPRAY NOZZLE TIPS WHICH DELIVER COARSE SPRAYS

Aerial Application

Use a minimum of 5 gallons per acre for aerial application.

Cultivation

Cultivation of perennial grasses from 7 days prior until 3 days after application of FUSILADE 2E may reduce control due to 1) destruction of grass foliage which otherwise would adsorb and translocate FUSILADE 2E into rhizomes and stolons; 2) inducing a stress on grass remaining in the uncultivated part of the field, thereby reducing uptake and translocation of FUSILADE 2E. However, cultivation no sooner than 3 days after application will often assist in grass control.

Cultivation of annual grasses from 7 days prior until 7 days after application of FUSILADE 2E may reduce control due to 1) inducing a stress on grass remaining in the uncultivated part of the field, thereby reducing uptake and translocation of FUSILADE 2E; 2) physical covering of small seedlings with soil which prevents foliage contact by the spray. However, cultivation not sooner than 7 days following application will often assist in grass control.

Band Applications

When making band applications, equipment should be adjusted to provide maximum coverage of grasses in the row (drill). Thorough coverage can be obtained with a nozzle directed to each side of the row toward the grass in the row. Application with a single nozzle over the top of the row is not recommended. The use of band applications on perennial grasses may result in reinfestation of the treated band from the untreated middle.

PERENNIAL GRASS CONTROL

For best results, rhizomes or scalons must be cut up by preplant tillage (discing, plowing, etc.) to stimulate maximum emergence of grass shoots. Because rhizomes and stolons are not cut up by preplant tillage in no-till and reduced tillage plantings, a second application is recommended for season-long control. Apply FUSILADE 2E to actively growing areas.

Two applications of FUSILADE 2E are generally more effective for full season control than a single application of the same total amount.

Apply FUSILADE 2E to actively growing grasses.

Always add either crop oil concentrate or nonionic surfactant at the recommended rates

USE LOWER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage can be achieved.
- A majority of the grass is less than the maximum recommended height.
- Rhizomes or stolons were cut up by preplant tillage.
- Environmental conditions are optimal: abundant soil moisture, warm temperatures and high humidity.

USE HIGHER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage cannot be achieved.
- A majority of the grass is at the maximum recommended height.
- Rhizomes and stolons were not cut up by preplant tillage.
- One or more environmental conditions is less than optimal: limited soil moisture, cool temperatures or low humidity.

Rhizome Johnsongrass (Sorghum halepense)

Apply 1 to 12 pints of FUSILADE 2E per acre to johnsongrass when it is 12-18 inches tall and before the boot stage. If regrowth occurs, apply 1 to 1 pint per acre when regrowth is 6-12 inches tall. Do not apply a total of more than 2 pints of FUSILADE 2E per acre per season.

Bermudagrass (Cynodon dactylon)

Apply 3/4 to 2 pints of FUSILADE 2E per acre to bermudagrass up to three inches in height or 4-8 inches in stolon (runner) length. Bermudagrass may regrow. For season-long control, when 3/4 to 1 pints/A has been used, apply 1 pint per acre 2 to 6 weeks after the first application.

Because bermudagrass is a low growing perennial, the crop canopy may shield it from herbicide sprays. Coverage may be improved by directing the spray under the crop canopy. Do not apply a total of more than 2 pints of FUSILADE 2E per acre.

Quackgrass (Agropyron repens)

Apply 1 to 2 pints of FUSILADE 2E per acre to quackgrass that has 3 to 5 leaves and does not exceed 10 inches in height. Quackgrass may regrow. For season long control when the 1 pint rate has been used, apply 1 pint per acre 2 to 6 weeks after the first application. Do not apply a total of more than 2 pints of FUSILADE 2E per acre.

Wirestem muhly (Mulhenbergia frondosa)

Apply ½ to 1½ pints of FUSILADE 2E per acre to wirestem muhly when it is 4 to 12 inches tall. Wirestem muhly may regrow. For season-long control, when ½ to 1 pint per acre has been used, apply ½ to 1 pint per acre 2 to 6 weeks after the first application. Do not apply a total of more than 2 pints of FUSILADE 2E per season.

Spot Treatments

Mix FUSILADE 2E and crop oil concentrate of nonionic surfactant with water according to the amounts shown below. Spray to obtain thorough coverage, but do not spray to runoff. Retreat if necessary. Applications must be made prior to bloom in soybeans. Do not apply a total of more than 2 pints of FUSILADE 2E per acre per season.

		Add These Amounts	
To Make This Spray Volume	FUSILADE 2E	Crop Oil Concentrate or	Nonionic Surfactant
l gallon 25 gallons 50 gallons 100 gallons	1 fl. oz. 1½ pints 3 pints 3 quarts	1 1/4 fl. oz. 1 quart 2 quarts 1 gallon	1/3 fl. oz. 1/2 pint 1 pint 1 quart

ANNUAL GRASS CONTROL

For grasses not exceeding the growth stages shown in Table 2, and before tillering, apply FUISLADE 2E at the rates recommended in Table 2. Do not apply a total of more than 2 pints of FUSILADE 2E per acre per season.

RESIDUAL ANNUAL GRASS CONTROL

Under conditions where rainfall is adequate following application, soil residual activity may be observed. This may result in control or suppression of new flushes of annual grasses. The amount of residual control is dependent on the FUSILADE 2E rate used, grass density and soil type, with more activity being seen with higher rates on coarse-textured soils low in organic matter.

ANNUAL GRASS CONTROL

Apply FUSILADE 2E to actively growing grasses.

Apply to grasses no larger than the size indicated in this table. Always add the recommended rate of nonphytotoxic oil concentrate or nonionic surfactant.

Do not use flood type or other nozzle tips

which deliver coarse sprays.

USE LOWER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage can be achieved.
- A majority of the grass is less than the maximum recommended height.
- Environmental conditions are optimal: abundant soil moisture, warm temperatures and high humidity.

USE HIGHER RECOMMENDED RATES WHEN:

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- Complete wetting of all grass foliage cannot be achieved.
- A majority of the grass is at the maximum recommended height.
- One or more environmental conditions is less than optimal: limited soil moisture, cool temperatures or low humidity.

Grass Species	Height (Inches)	FUSILADE Rate (Pints/A)
Group 1		
Shattercane/Wildcane/Volunterr milo (Sorghum bicolor) Volunteer corn (Zea mays) Seedling johnsongrass (Sorghum halepense)	6-12 12-24 4-12	. 1/4 to 3/4 1/4 to 3/4 1/4 to 3/4

Group 2

Wild proso millet (Panicum miliaceum)	4-8	1/2 to 1
Broadleaf signalgrass	2-4	1/2 to $1-1/2$
(Brachiaria platyphylla)		
Fall panicum (Panicum dichotomiflorum)	2-4	1/2 to $1-1/2$
Goosegrass (Fleusine indica)	2-4	1/2 to 1-1/2
Texas panicum (Panicum texanum)	2-4	1/2 to $1-1/2$
Wild oats (Avena fatua)	2-4	1/2 to $1-1/2$
Volunteer oats (Avena sativa)	2-4	1/2 to 1-1/2
Volunteer wheat (Triticum aestivum)	2-4	1/2 to $1-1/2$
Volunteer rye (Secale cereale)		1/2 to $1-1/2$
Witchgrass (Panicum capillare)	2-4	1/2 to $1-1/2$
Group 3		
Paramandanas (Pakiraskias amas asilii)	2 4	2// 1 1/2
Barnyardgrass (Echinochloa crus-galli)		3/4 tr 1-1/2
Junglerice (Echinochloa colonum)		3/4 to $1-1/2$
Itchgrass (Rottboellia exaltata)	2-4a/ 2-4a/	3/4 to $1-1/2$
Large crabgrass (Digitaria sanguinalis)	2-4-7	3/4 to $1-1/2$
Smooth crabgrass (Digitaria ischaemum)	2-4a/	3/4 to $1-1/2$
Southern sandbur (Cenchrus echinatus)	2-4	
Yellow foxtail (Setaria lutescens)		3/4 to $1-1/2$
Green foxtail (Setaria viridis)		3/4 to $1-1/2$
Giant foxtail (Setaria faberi)	4-6 _h /	3/4 to $1-1/2$
Red rice (Oryza sativa)	$1 - 2^{D/}$	3/4 to 1-1/2

2-4

2-4

2-4

2-4

3/4 to 1-1/2

If rates of 1/4 to 1 pint/acre have been used, retreat at a rate up to 1 pint/acre if needed to control late germinating grasses or regrowth. Do not apply a total of more than 2 pints of FUSILADE 2E per acre per season.

When mixed grass populations include grasses from Group 2 or 3, use the higher rate range of FUSILADE 2E for broad-spectrum control.

Remarks and Precautions

Tighhead Sprangle Top

Loosehead Sprangle Top

(Leptochloa panicoides)

(Leptochloa fascicularis)

Volunteer barley (Hordeum vulgare)

Woolly Cupgrass (Eriochloa villosa)

Do not apply a total of more than __ints of FUSILADE 2E per acre per season to soybeans.

Clean sprayer thoroughly before and after the application of FUSILADE 2E. Failure to clean sprayer thoroughly after application may result in injury to any grass crop subsequently sprayed, including corn, sorghum, small grains, sugarcane, rice and turf.

a/ b/ Length of runners or numbers of leaves

Avoid drift to all other crops and nontarget areas. Grass crops are highly susceptible to FUSILADE 2E.

Do not plant rotational grass crops such as corn, sorghum and cereals within 60 days after last application.

Make last application before bloom.

Do not graze or harvest for forage or hay.

Do not tank mix FUSILADE 2E with herbicides or other pesticides, with liquid fertilizers or with any other additive except as specified on this label. Sequential application of other herbicides within five days before or after FUSILADE 2E application has sometimes results in crop injury and reduced grass control.

Do not apply FUSILADE 2E with recirculating sprays, ropewick applicators or any similar devices.

Do not apply FUSILADE 2E if rainfall is expected within 1 hour.

Conversion Table

FUSILADE 2E Rate to be / lied

lb ai/A	Pints/A	fl oz/A	A/gal
0.031	1/8	2	64
0.063	1/4	4	32
0.094	3/8	6	21.3
0.125	1/2	8	16
0.188	3/4	12	10.7
0.250	• 1	16	8
0.5	·"2	32	4

FUSILADE 2E contains 2 pounds of active ingredient per gallon.

WIGO1100384mah04

SUPPLEMENTAL LABEL FOR NONCROP AND NONFOOD USES

FUSILADE™ 2E Herbicide

EPA Reg. No. 10182-66

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Not for use or storage in or around the home.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

This labeling must be in the possession of the user at the time of pesticide application.

GENERAL INFORMATION

FUSILADE 2E is a selective postemergence herbicide for control of annual and perennial grasses in many nonfood crops and noncrop areas. FUSILADE 2E does not control broadleaf weeds or sedges (nutgrass).

Application Information and Timing - Thorough spray coverage is required for optimum control of grasses present. Apply to actively growing; and before they exceed the recommended growth stages shown on this lanel.

Control Symptoms - FUSILADE 2E is a systemic herbicide which moves from the treated foliage into the rhizomes, stolons, and growing points of grasses. Excellent control of a wide range of annual and perennial grasses will be obtained with FUSILADE 2E when applied as recommended on this label.

Growth of treated grasses stops soon after application. Symptoms include loss of vigor, yellowing and/or reddening, and necrosis. Symptoms are generally observed within one to three weeks, depending on grass species and environmental conditions.

REMARKS AND PRECAUTIONS

Environmental Hazards: This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of waste. Do not apply when weather conditions favor drift from target area.

Do not apply FUSILADE 2E if rainfall is expected within 1 hour.

Do not tank mix FUSILADE 2E with herbicide other pesticides, with liquid fertilizers or with any other adultives except as specified on this label. Sequential application of other herbicides within five days before or after FUSILADE 2E application has sometimes resulted in reduced grass control.

Clean sprayer thoroughly before and after the application of FUSILADE 2E. Failure to clean sprayer thoroughly after application may result in injury to any grass crop subsequently sprayed, including corn, sorghum, small grains, sugar cane, rice and turf.

Avoid drift to all other crops and nontarget areas. Grass crops such as corn, sorghum, small grains, sugar cane, rice and turf are highly susceptible to FUSILADE 2E.

All applicable directions, restrictions, and precautions on the EPA registered label are to be followed.

NOVCEOP AREAS

FUSILADE 2E herbicide can be used to control grass weeds in areas such as airports, electric transformer stations and substations, pipeline pumping stations, around buildings, storage yards, fence lines, parkways, roadsides, rights-of-way, and other noncropland areas.

NOTE:

IF SPRAYING AREAS ADJACENT TO ORNAMENTAL TREES, SHRUBS OR GROUND COVERS:

DO NOT APPLY TO FOLIAGE OF ORNAMENTAL TREES, SHRUBS OR GROUND COVERS UNLESS THEY ARE LISTED IN TABLE I OF THE ORNAMENTAL SECTION OF THIS LABEL.

For specific rates of application and instructions for control of grass weeds, see the "Directions for Application" section of this label.

FALLOW LAND

FUSILADE 2E herbicide can be used to control grass weeds during fallow periods.

Do not plant rotational crops other than cotton and soybeans within 60 days after last application.

For specific rates of application and instructions for control of grass weeds, see the "Directions for Application" section of this label.

NONBEARING TREE CROPS, VINES, ASPARAGUS AND JOJOBA

FUSILADE 2E herbicide can be used to control grass weeds in nonbearing groves, orchards or vineyards or for site preparation prior to transplanting.

APPLY AS A DIRECTED SPRAY TO PREVENT CONTACT OF SPRAY WITH FOLIAGE OF TREES OR VINES.

DO NOT APPLY TO TREES OR VINES THAT WILL BE HARVESTED WITHIN ONE YEAR AFTER APPLICATION.

DO NOT APPLY TO ASPARAGUS FROM WHICH SPEARS WILL BE HARVESTED WITHIN ONE YEAR OF TREATMENT.

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FUSILADE 2E is recommended on the following nonbearing crops:

Almonds Grapes Pears Apples Grapefruit Pecans Apricots Pistachios Jojoba Asparagus Lemons Plums Avocados Limes Pomegranates Berlie Macademia Prunes Cherries Nectarines Tangelos Dates Olives Tangerines Figs Filberts Oranges Walnuts Peaches

For specific rates of application and instructions for control of grass weeds, see the "Directions for Application" section of this label.

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ORNAFENTALS

FUSILADE 2E herbicide can be used to control grass weeds in many newly transplanted and established nongrassy ornamentals, trees, shrubs and ground covers. See the following Tables I and II for specific recommended uses. (USE ONLY NONIONIC SURFACTANT ON ORNAMENTALS.)

Application of FUSILADE 2E may be made over-the-top to ornamentals listed in Table I. Apply as a directed spray to prevent contact of spray with foliage of ornamentals listed in Table II.

For specific rates of application and instructions for control of grass weeds, see the "Directions for Application" section of this label.

DIRECTIONS FOR APPLICATION

Use 2 pints of FUSILADE 2E and 1 quart of crop oil concentrate or 1/4 pint of a nonionic surfactant per 25 gallons of water. (Use only nonionic surfactant on ornamentals). Apply by ground equipment using 25 gallons of diluted spray per treated acre with 30-60 psi pressure. Spray to obtain thorough coverage of grass foliage, but not to run-off. Repeat treatments may be necessary to provide full-season control. Use standard pesticide hollow cone or flat fan nozzles.

	Add These			dd These Amou	nts	
To Make This To Treat Spray Volume	To Make This Spray Volume	FUSILADE	+	Crop Oila Concentrate	or	Nonionic ^b Surfactant
1 acre 2 acres 4 acres	25 gal 50 gal 100 gal		+ + +	l quart 2 quarts 1 gallon	or or	<pre>h pint l pint l quart</pre>

Use nonphytotoxic crop oil concentrates that contain 15-20% surfactant. Do not use crop oil concentrate on ornamentals.

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AERIAL APPLICATION

Use a minimum of 5 gallons per acre for aerial application.

b Use nonionic surfactants that contain at least 75% surface active agent.

Apply FUSILADE 2E to actively growing grasses before they exceed the recommended growth stages shown below:

Grass

Growth Stage

2/

Perennial Grasses

Johnsongrass (Sorghum halepense) 12-18" tall and before

boot stage.

Bermudagrass (Cynodon dactylon) 3" tall or with 4-8" runners.

Quackgrass (Agropyron repens)

3-5 leaves, not more than 10" tall.

Guineagrass (Panicum maximum) 6-12" tall and before seedhead initiation

Annual Grasses

Barnyardgrass (Echinochloa crusgalli) Broadleaf signalgrass (Brachiaria platyphylla) Fall panicum (Panicum dichotomiflo.um) Field sandbur (Cenchrus pauciflorus)
Foxtail, green (Setaria viridis)
Foxtail, giant (Setaria faberi) Foxtail, yellow (Setaria lutenscens) Goosegrass (Eleusine indica) Guineagrass, seedling (Panicum maximum) Itchgrass (Rottboellia exaltata)
Johnsongrass, seedling (Sorghum halepense) 2-8" tall, before Junglerice (Echinochloa colonum) tillering Large crabgrass (Digitaria sanguinalis) and/or Prairie cupgrass (Eriochloa contracta) heading. Red rice (Oryza sativa) Shattercane/Wildcane/Volunteer milo (Sorghum bicolor) Smooth crabgrass (Digitaria ischaemum) Southern sandbur (Cenchrus echinatus) Southwestern cupgrass (Eriochloa gracilis) Texas panicum (Panicum texanum) Volunteer barley (Hordeum vulgare) Volunteer corn (Zea mays) Volunteer wheat (Triticum aestivum) Wild oats (Avena fatua) Wild proso millet (Panicum miliaceum) Witchgrass (Panicum capillare)

TABLE I

OVER-THE-TOP APPLICATIONS may be applied to the following ornamentals:

USE ONLY NONIONIC SURFACTANT ON ORNAMENTALS

Alyssum spp.

Arborvitae
Thuja spp.

Cinquefoil Potentilla spp.

Cotoneaster spp.

Dogwood Cornus spp.

Douglas fir 1/ Preudotsuga spp.

English Ivy Hedera helix

Euonymus spp.

Fir^{1/}
Abies spp.

Forsythia spp.

Hemlock 1/ Tsuga spp. Holly
Ilex spp.

Japanese snowball Viburnum spp.

Lilyturf
Liriope spp.

O'Connor's legume Trifc ium : agiferum

Periwit le Vinca

Pine¹/ Pinus spp.

Privet Ligustrum spp.

Rhododendron (excluding Azalea)

Spruce^{1/}
Pices spp.

Yew^{1/}
Taxus spp.

DIRECTED APPLICATION recommended from budbreak, through initial growth hardening.

NOTICE TO USER:

It is impossible to test every species and variety of ornamental or nursery plants. Plant tolerance to FUSILADE has been found to be acceptable in the above specified genera and species. Neither the manufacturer nor the seller has determined whether or not FUSILADE can safely be used on plants not specified on this label. The professional user should determine if FUSILADE can be used safely prior to use.

TABLE II

DIRECTED APPLICATIONS to avoid ornamental foliage are recommended for the following:

Ajuga spp.

Almond (flowering)
Prunus spp.

Ash Fraxinus spp.

Azalea Rhododendron spp.

Barberry
Berberis spp.

Beech Fagus spp.

Birch Betula spp.

Boxwood
Buxus spp.

Cherry (flowering)
Prunus spp.

Crabapple
Malus spp.

Crepe Myrtle
Lagerstroemia indica

Elm Ulmus spp.

Eucalyptus spp.

Firethorn
Pyracantha spp.

Magnolia spp.

Maple Acer spp.

Marigold Calandula spp.

Mountainash Sorbus spp.

Oak Quercus spp.

Peach (flowering)
Prunus spp.

Pear (flowering)
Pyrus spp.

Petunia Petunia spp.

Photinia spp.

Pittosporum spp.

Plum (Flowering) Prunus spp.

Quince Chaenomeles spp.

Redbud Cercis spp.

Spirea Spiraea spp.

Continued...

TABLE II (Continued)

Gardenia spp.

Geranium Pelargonium spp.

Horsechestnut Aesculus spp.

Impatiens Impatiens spp.

Juniper Juniperus spp.

Sweet-gum Liquidambar spp.

Tulip-tree Liriodendron spp.

Willow Salix spp.

Zinnia Zinnia spp.

Spot Treatments

Mix FUSILADE 2E and crop oil concentrate or nonionic surfactant with water according to the amounts shown below. Spray to obtain thorough coverage, but do not spray to runoff. Retreat if necessary.

To Make This Spray Volume	FUSILADE 2E	Add These Amounts Crop Oil Concentrate	or Nonionic Surf.
1 gallon	1 fl. oz.	1-1/4 fl. oz.	<pre>1/3 fl. oz. 1/2 pint 1 pint 1 quart</pre>
25 gallons	1½ pint	1 quart	
50 gallons	3 pints	2 quarts	
100 gallons	3 quares	1 gallon	

NOTICE TO BUYER: Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Seller and Buyer assumes the risk of any such use. Seller aisclaims all other warranties expressed or implied including any warranty of fitness or merchantability. Seller shall not be liable for consequential special or indirect damages resulting from the use or handling of this product and Seller's sole liability and Buyer's exclusive remedy shall be limited to the refund of the purchase price.

Conversion Table FUSILADE 2E Rate to be Applied

lbs ai/A	pints/A	fl oz/A	A/gal
1/8	1/2	8	16
3/16	3/4	12	10.7
1/4	ì	16	8
3/8	14	24	5.3
1/8 3/16 1/4 3/8 1/2	2	32	4
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FUSILADE 2E contains 2 pounds of active ingredient per gallon.

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SUPPLEMENTAL LABEL FOR USE ON CONSERVATION USE ACRES

FUSILADE™ 2E Herbicide

EPA Reg. No. 10182-66

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

This labeling must be in the possession of the user at the time of pesticide application.

For control of annual and perennial grasses on fallow ground or in broadleaf cover crops, use 2 pints of FUSILADE 2E and 1 quart of crop oil concentrate or & pint of a nonionic surfactant per 25 gallons of water. Apply by ground equipment using 25 gallons of diluted spray per treated acre with 30-60 psi pressure. Spray to obtain thorough coverage, but not to run-off. Retreat if regrowth occurs, or to control newly germinating seedlings. Use standard pesticide hollow cone or flat fan nozzles.

	Add These Amounts		
To Make This	FUSILADE	Crop Oil	Nonionic
Spray Volume		Concentrate a	r Surfactant
25 gal	2 pints	1 quart	½ pint
50 gal	2 quarts	2 quarts	1 pint
100 gal	4 quarts	1 gallon	1 quart

[&]quot;Use nonphytotoxic crop oil concentrates that contain 15-20% surfactant.

bUse nonionic surfactants that contain at least 75%

surface active agent.

Apply FUSILADE 2E to actively growing grasses before they exceed the recommended growth stages shown below:

Grass	Growth Stage	
Perennial Grasses		
Johnsongrass (Sorghum halepense)	12-18" tall and before boot stage.	
Bermudagrass (Cynodon dactylon)	3" tall or with 4-8" runners.	
Quackgrass (AgropyTon repens)	Minimum of 4 leaves, not more than 10" tall.	
Annual Grasses*	2-8" tall, before heading.	

*Except Annual Bluegrass (Poa annua)

REMARKS AND PRECAUTIONS

Do not graze treated cover crops or harvest for forage or hay.

Do not plant rotational crops other than cotton and soybeans within 60 days after last application.

Grass crops such as corn, sorghum, small grains, sugar cane, rice and turf are highly susceptible to FUSILADE 2E. Avoid drift to all other crops and nontarget areas.

All applicable directions, restrictions, and precautions on the EPA registered label are to be followed.

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